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**DEVICE FOR MEASURING THE
TEMPERATURE OF A MOLTEN METAL**

Abstract of the Disclosure

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The present invention is a device for
5 measuring the temperature of a molten metal. The
device includes a thermocouple element, a housing
consisting of a heat-resistant material and a
retainer member for receiving the thermocouple
element. The retainer member has an open end and a
10 closed end. The thermocouple element has a hot
junction located proximate the closed end of the
retainer member. The retainer member is positioned
within the housing and is smaller in size than the
housing to define a cavity therebetween. The
15 cavity is substantially filled by a protective
material which includes a metal oxide component and
an oxygen reducing component.

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